

WHAT IS CLAIMED IS:

1. A method for analyzing a product for safety in view of a safety incident associated with the product, said method comprising:

a) comparing the safety incident to a plurality of previously analyzed safety incidences stored in safety documentation for the product and selecting one of said safety incidences based on the comparison;

b) conducting an accident scenario review (ASR) of the safety incident using an existing ASR template previously developed for the selected stored safety incidence;

c) modifying the existing ASR template to reflect to suit the ASR for the safety incident;

d) based on the accident scenario review, identifying at least one corrective action which avoids or mitigates future occurrences of the safety incident, and

e) updating the safety documentation to include the tailored ASR template developed for the safety incident.

2. A method for analyzing a product for safety as in claim 1 wherein the safety incident is an accident which occurred during use of the product in fleet operation.

3. A method for analyzing a product for safety as in claim 1 wherein the safety incident is a potential accident scenario identified during use of the product.

4. A method for analyzing a product for safety as in claim 1 further comprising determining that the safety incident has a severity level above a threshold severity level before proceeding to step (a).

5. A method for analyzing a product for safety as in claim 1 wherein said ASR includes constructing an accident scenario model of the safety incident and said model is based on the tailored ASR template.

6. A method for analyzing a product for safety as in claim 1 wherein said ASR identifies at least one causation for the safety incident and said at least one corrective action is intended to prevent a future occurrence of the causation.

7. A method for analyzing a product for safety as in claim 1 wherein said documentation further comprises a database of analyzed safety incidences and corresponding ASR template.

8. A method for analyzing a product for safety as in claim 1 wherein step (c) includes creating an original ASR using the modified ASR template.

9. A method for analyzing a product for safety in view of a safety incident associated with the product, said method comprising:

a) record the safety incident in safety documentation for the product;

b) determining whether the safety incident has a severity level above a threshold severity level before proceeding to step (c);

c) comparing the safety incident to a plurality of previously analyzed safety incidences stored in the safety documentation and selecting one of said safety incidences based on the comparison;

d) developing an accident scenario model of the safety incident using as a template an existing accident scenario model developed for the selected safety incidence;

e) identifying at least one corrective action which avoids the causation of the safety incident, and

f) updating the safety documentation to include the accident scenario model developed for the safety incident.

10. A method for analyzing a product for safety as in claim 9 wherein the safety incident is an accident which occurred during use of the product in fleet operation.

11. A method for analyzing a product for safety as in claim 9 wherein the safety incident is a potential accident scenario identified during use of the product.

12. A method for analyzing a product for safety as in claim 9 further comprising determining that the safety incident has a severity level above a threshold severity level before proceeding to step (a).

13. A method for analyzing a product for safety as in claim 9 wherein said ASR includes constructing an accident scenario model of the safety incident and said model is based on the tailored ASR template.

14. A method for analyzing a product for safety as in claim 9 wherein said ASR identifies at least one causation for the safety incident and said at least one corrective action is intended to prevent a future occurrence of the causation.

15. A method for analyzing a product for safety as in claim 9 wherein said documentation further comprises a database of analyzed safety incidences and corresponding ASR template.

16. A method for analyzing a product for safety as in claim 1 wherein step (c) includes creating an original ASR using the modified ASR template.